

REMARKS

CLAIM AMENDMENTS

The amendments to claims 1 and 20 are taken verbatim from page 6 of the specification and from Figure 1; and therefore, no new matter has been added by virtue of the amended claims herein.

35 USC §102

Claims 1-4, 7, 11-23, 26 and 30-38 are rejected under 35 USC §102(b) as being anticipated by Subramani (US 6254746). The Applicant disagrees, especially in view of the amendments presented herein.

Amended claim 1 recites:

"A coil assembly, comprising:

at least one coil having a thickness;

at least one boss coupled to the at least one coil, wherein the at least one boss comprises at least two support sections, has a diameter and wherein the diameter of the at least one boss is greater than the thickness of the at least one coil, and further wherein a first support section has a first diameter and the first support section is not directly coupled to the coil, and a second support section that is coupled to the first support section and the coil, wherein the second support section has a diameter that is larger than the first diameter, and wherein the second support section is coupled to the first support section and the coil through a welded joint, a screw, a bolt or bolt assembly or molded to the coil as one continuous piece of material."
(emphasis added)

Amended claim 20 recites:

"A method of producing a coil assembly, comprises:

providing a coil having a thickness;

providing at least one boss having at least two support sections and a diameter; and coupling the at least one boss to the coil, wherein the diameter of the at least one boss is greater than the thickness of the at least one coil, and wherein a first support section has a first diameter and the first support section is not directly coupled to the coil, and a second support section that is coupled to the first support section and the coil, wherein the second support section has a diameter that is larger than the first diameter, and wherein the second support section is coupled to the first support section and the coil through a welded joint, a screw, a bolt or bolt assembly or molded to the coil as one continuous piece of material." (emphasis added)

Subramani discloses a recessed coil for creating a plasma, but does not teach the coil assembly of amended claims 1 and 20, specifically, Subramani does not teach that the second support section is coupled to the first support section and the coil through a series of attachments. "Anticipation requires the disclosure in a single prior art reference of each element of the claim under consideration." *W. L. Gore & Assocs. v. Garlock, Inc.*, 721 F.2d 1540, 220 USPQ 303, 313 (Fed. Cir. 1983) (citing *Soundsciber Corp. v. United States*, 360 F.2d 954, 148 USPQ 298, 301 (Ct. Cl.), *adopted*, 149 USPQ 640 (Ct. Cl. 1966)) Further, the prior art reference must disclose each element of the claimed invention "arranged as in the claim". *Lindermann Maschinenfabrik GmbH v. American Hoist & Derrick Co.*, 730 F.2d 1452, 221 USPQ 481, 485 (Fed. Cir. 1984)(citing *Connell v. Sears, Roebuck & Co.*, 722 F.2d 1542, 220 USPQ 193 (Fed. Cir. 1983)). Subramani does not teach at least one boss coupled to the at least one coil, wherein the at least one boss comprises at least two support sections, has a diameter and wherein the diameter of the at least one boss is greater than the thickness of the at least one coil, and further wherein a first support section has a first diameter and the first support section is not directly coupled to the coil, and a second support section that is coupled to the first support section and the coil, wherein the second support section has a diameter that is larger than the first

diameter, and wherein the second support section is coupled to the first support section and the coil through a welded joint, a screw, a bolt or bolt assembly or molded to the coil as one continuous piece of material. In Subramani, the coil merely rests in a hook shaped bracket 254 and is not coupled to what the Examiner is calling a support device. Based on this argument Subramani does not anticipate claim 1 or claim 20 of the present application because Subramani is lacking and/or missing at least one specific feature or structural recitation found in the present application, and in claim 1 and claim 20. Claim 1 and claim 20 are therefore allowable as not being anticipated by Subramani. Further, Subramani does not anticipate claims 2-4, 7, 11-19, 21-23, 26 and 30-38 of the present application by virtue of their dependency on claim 1 and claim 20, respectively.

35 USC §103

Claims 5-6 and 24-25 are rejected under 35 USC §103(a) as being unpatentable over Subramani.

Claims 8-10 and 27-29 are rejected under 35 USC §103(a) as being unpatentable over Subramani in view of Hong (US Publication 2001/0007302).

The Applicant disagrees, especially in view of the amendments presented herein.

Amended claim 1 recites:

“A coil assembly, comprising:

at least one coil having a thickness;

at least one boss coupled to the at least one coil, wherein the at least one boss comprises at least two support sections, has a diameter and wherein the diameter of the at least one boss is greater than the thickness of the at least one coil, and further wherein a first support section has a first diameter and the first support section is not directly coupled to the coil, and a second support section that is coupled to the first support section and the coil, wherein the second support section has a diameter that is larger than the first diameter, and wherein the second support section is coupled to the first support section and the coil through a welded joint, a screw, a bolt or bolt assembly or molded to the coil as one continuous piece of material.”
(emphasis added)

Amended claim 20 recites:

"A method of producing a coil assembly, comprises:

providing a coil having a thickness;

providing at least one boss having at least two support sections and a diameter; and

coupling the at least one boss to the coil, wherein the diameter of the at least one boss is greater than the thickness of the at least one coil, and wherein a first support section has a first diameter and the first support section is not directly coupled to the coil, and a second support section that is coupled to the first support section and the coil, wherein the second support section has a diameter that is larger than the first diameter, and wherein the second support section is coupled to the first support section and the coil through a welded joint, a screw, a bolt or bolt assembly or molded to the coil as one continuous piece of material."
(emphasis added)

Subramani does not teach, suggest or motivate one of ordinary skill of the art to create a system that comprises at least one boss coupled to the at least one coil, wherein the at least one boss comprises at least two support sections, has a diameter and wherein the diameter of the at least one boss is greater than the thickness of the at least one coil, and further wherein a first support section has a first diameter and the first support section is not directly coupled to the coil, and a second support section that is coupled to the first support section and the coil, wherein the second support section has a diameter that is larger than the first diameter, and wherein the second support section is coupled to the first support section and the coil through a welded joint, a screw, a bolt or bolt assembly or molded to the coil as one continuous piece of material. In Subramani, the coil merely rests in a hook shaped bracket 254 and is not coupled to what the Examiner is calling a support device. The Hong reference does not cure the deficiency of the Subramani reference with respect to the amended claims herein. Therefore, claims 1 and 20 are allowable as patentable over Subramani – alone or in combination with Hong. In addition,

claims 5-6, 8-10, 24-25 and 27-29 are allowable as patentable over Subramani – alone or in combination with Hong.

REQUEST FOR TELECONFERENCE

The Applicant through the undersigned Attorney of Record respectfully requests an urgent interview, if a notice of allowance is not warranted based on this Response. Dr. Thompson would like to discuss this case before an Advisory Action is issued, in order to try and resolve any outstanding issues before a Request for Continued Examination is necessitated. Dr. Thompson can be reached at 949-224-6282 on Mondays-Fridays from 9AM-4PM PST.

REQUEST FOR ALLOWANCE

Claims 1-7, 9, 11-26, 28 and 30-38 are pending in this application and the Applicant respectfully requests that the Examiner reconsider the claims in light of the arguments presented and allow all pending claims.

Respectfully submitted,

Buchalter Nemer, A Professional Corp.



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